

Form PTO-1449		
ATTY DOCKET NO.: 25-98A	SERIAL NO.: 09/724,296	FILING DATE: November 28, 2000
APPLICANT: Doetsch et al.		GROUP:

## U.S. PATENT DOCUMENTS

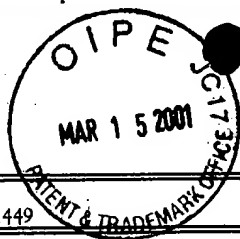
Exmr. Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
df	1	4,863,874	09/05/89	Wassef et al.	436	501	
df	2	4,921,757	05/01/90	Wheatley et al.	428	402.2	
df	3	5,077,211	12/31/91	Yarosh	435	193	
df	4	5,190,762	03/02/93	Yarosh	424	450	
df	5	5,225,212	07/06/93	Martin et al.	424	450	

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes/No

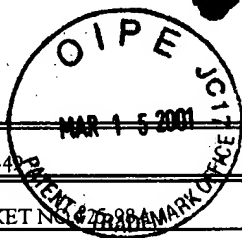
## OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

df	6		Alleva and Doetsch (1998) "Characterization of <i>Schizosaccharomyces pombe</i> Rad2 Protein, a FEN-1 Homolog" <i>Nucleic Acids Research</i> 26:3645-3650.
df	7		Avery et al. (1999) "Substrate Specificity of Ultraviolet DNA Endonuclease (UVDE/Uve1p) from <i>Schizosaccharomyces pombe</i> " <i>Nucleic Acids Research</i> 27:2256-2264.
df	8		Bowman et al. (1994) "A New ATP-Independent DNA Endonuclease From <i>Schizosaccharomyces pombe</i> That Recognizes Cyclobutane Pyrimidine Dimers and 6-4 Photoproducts" <i>Nucleic Acids Research</i> 22:3026-3032.
df	9		Brash et al. (1991) "A Role for Sunlight in Skin Cancer: UV-Induced p53 Mutations in Squamous Cell Carcinoma" <i>Proc. Natl. Acad. Sci. USA</i> 88:10124-10128.
df	10		Chang and Lu (1991) "Base Mismatch-Specific Endonuclease Activity in Extracts from <i>Saccharomyces cerevisiae</i> " <i>Nucleic Acids Research</i> 19:4761-4766.
df	11		Davey et al. (1997) "The Fission Yeast UVDR DNA Repair Pathway Is Inducible" <i>Nucleic Acids Research</i> 25:1002-1008.



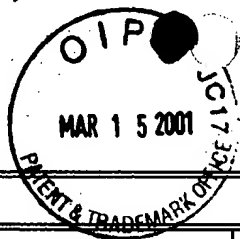
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12	Doetsch, P. W. (1995) "What's Old Is New: An Alternative DNA Excision Repair Pathway" <i>Trends Biochem. Sci.</i> 20:384-386.
13	Doetsch et al. (1985) "T4 DNA Polymerase (3'-5') Exonuclease, an Enzyme for the Detection and Quantitation of Stable DNA Lesions: the Ultraviolet Light Example" <i>Nucleic Acids Research</i> 13:3285-3304.
14	Freyer et al. (1995) "An Alternative Eukaryotic DNA Excision Repair Pathway" <i>Molecular and Cellular Biology</i> 15:4572-4577.
15	Genbank Accession No. AAA08907.
16	Genbank Accession No. AAD22195.
17	Genbank Accession No. BAA74539.
18	Genbank Accession No. D78571.
19	Genbank Accession No. U78487.
20	Genbank Accession No. Z49782.
21	Grafstrom et al. (1982) "Enzymatic Repair of Pyrimidine Dimer-Containing DNA" <i>The Journal of Biological Chemistry</i> 257:13465-13474.
22	Hamilton et al. (1992) "A Eukaryotic DNA Glycosylase/Lyase Recognizing Ultraviolet Light-Induced Pyrimidine Dimers" <i>Nature</i> 356:725-728.
23	Kaur et al. (1998) "Expression, Purification, and Characterization of Ultraviolet DNA Endonuclease from <i>Schizosaccharomyces pombe</i> " <i>Biochemistry</i> 37:11599-11604.
24	Kaur et al. (July 1999), "A Uve1p-Mediated Mismatch Repair Pathway in <i>Schizosaccharomyces pombe</i> ," <i>Molec. Cell. Biology</i> 19(7):4703-4710 ✓
25	Kaur et al. (2000), "Ultraviolet Damage Endonuclease (Uvelp): A Structure and Strand-Specific DNA Endonuclease," <i>Biochemistry</i> 39(9):5788-5796
26	Kim et al. (1994) "Characterization of (6-4) Photoproduct DNA Photolyase" <i>The Journal of Biological Chemistry</i> 269:8535-8540.
27	Nakabeppu et al. (1982) "Purification and Characterization of Normal and Mutant Forms of T4 Endonuclease V" <i>The Journal of Biological Chemistry</i> 257:2556-2562.



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dw	29	Sancar, A. (1994) "Mechanisms of DNA Excision Repair" <i>Science</i> 266:1954-1956.
dw	30	Sancar and Tang (1993) "Nucleotide Excision Repair" <i>Photochemistry and Photobiology</i> 57:905-921.
dw	31	Sancar, G.B. (1990) "DNA Photolyases: Physical Properties, Action Mechanism, and Roles in Dark Repair" <i>Mutation Research</i> 236:147-160.
dw	32	Schär and Kohli (1993) "Marker Effects of G to C Transversions on Intragenic Recombination and Mismatch Repair in <i>Schizosaccharomyces pombe</i> " <i>Genetics</i> 133:825-835.
dw	33	Szankasi and Smith (1995) "A Role for Exonuclease I from <i>S. pombe</i> in Mutation Avoidance and Mismatch Correction" <i>Science</i> 267:1166-1169.
dw	34	Takao et al. (1996) "Characterization of a UV Endonuclease Gene From the Fission Yeast <i>Schizosaccharomyces pombe</i> and Its Bacterial Homolog" <i>Nucleic Acids Research</i> 24:1267-1271.
dw	35	Yajima et al. (1995) "A Eukaryotic Gene Encoding an Endonuclease That Specifically Repairs DNA Damaged by Ultraviolet Light" <i>The EMBO Journal</i> 14:2393-2399.
dw	36	Yao and Kow (1997) "Further Characterization of <i>Escherichia coli</i> Enconuclease V" <i>The Journal of Biological Chemistry</i> 272:30774-30779.
dw	37	Yao and Kow (1994) "Strand-Specific Cleavage of Mismatch-Containing DNA by Deoxyinosine 3'-Endonuclease from <i>Escherichia coli</i> " <i>The Journal of Biological Chemistry</i> 269:31390-31396.
dw	38	Yasui and McCready (1998) "Alternative Repair Pathways for UV-Induced DNA Damage" <i>BioEssays</i> 20.4 20:291-297.
dw	39	Yeh et al. (1994) "Mammalian Topoisomerase I Has Base Mismatch Nicking Activity" <i>The Journal of Biological Chemistry</i> 269:15498-15504.
dw	40	Yeh et al. (1991) "Two Nicking Enzyme Systems Specific for Mismatch-Containing DNA in Nuclear Extracts from Human Cells" <i>The Journal of Biological Chemistry</i> 266:6480-6484.
dw	41	Yonemasu et al. (1997) "Characterization of the Alternative Excision Repair Pathway of UV-Damaged DNA in <i>Schizosaccharomyces pombe</i> " <i>Nucleic Acids Research</i> 25:1553-1558.



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<i>dw</i>	42	Yoon et al. (1999) "Processing of UV Damage in Vitro by FEN-1 Proteins as Part of an Alternative DNA Excision Repair Pathway" <i>Biochemistry</i> 38(15).
EXAMINER <i>Malicka</i> DATE CONSIDERED <i>Jan. 16, 2002</i>		
<b>*EXAMINER:</b> Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

12/20/89